BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Maintenance / Drilling and Repairs of Borewells and Providing Pipeline in Ward No. 10, Doddabommasandra.

Estimated Cost : Rs. 8.00 Lakhs

Job Code: 010-22-000002

Head of Account : P-1802 Water Supply New Areas

Name of Agency: Sri Subba Reddy K.V, No. 106/B, Aswathnagara, RMV 2nd Stage, Bangalore - 560094.

Work order No: BBMP/EE/BTP/WO/43/2021-22 Dated: 07-03-2022.

	Measurements Recarded on :								
Sl No	**Description of item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
	A) Rewinding								
1	Lifting of Submersible pump set as per Specification and direction	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	1089.10	**6535.00**

Assistant Engineer
Ward No. 10

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2	Transportation of pumping machineries	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	912.48	**5475.00**

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
3	Labour charges (over hauling)	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			**7**		
				Qty Limited to =			**6**	2573.46	**15441.00**

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4	**A) Repairs to Motor:** Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months.								
	D. Rewinding of motor of 10.0 HP	Each							
	3. Yelumandamma Badavane		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
				Total Qty =			**2**		
				Qty Limited to =			**2**	4003.16	**8006.00**

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5	**E. Rewinding of motor of 12.5 HP**	Each							
	1. Ramanna Garden 1st Main Road		1				**1**		
	2. Blue Field Garden Cross Road		1				**1**		
	4. Kempanna Layout 1st Cross Road		1				**1**		
	6. kateramma Layout near Temple		1				**1**		
	7. Ramachandrapura Govt School		1				**1**		
				Total Qty =			**5**		
				Qty Limited to =			**4**	4474.12	**17896.00**

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No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
	B) Replacement of Motor Parts:								
6	Starter 5 HP (with one year Guarantee)	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	4654.94	**27930.00**

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7	Rotor (with one year Guarantee)	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	4352.18	**26113.00**

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8	Upper Flange	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	336.40	**2018.00**

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
9	Lower Flange	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	336.40	**2018.00**

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10	Upper Housing	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	608.88	**3653.00**

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11	Lower Housing	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	608.88	**3653.00**

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No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
12	**Carbon housing** Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad.	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	959.17	**5755.00**

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13	**C) Replacement of pump parts:** The following main components of submersible pump sets requiring replacement. Oil Seal	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	143.81	**863.00**

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14	Oil Seal Steel bush	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	143.81	**863.00**

Assistant Engineer
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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
15	Guide vane	Each							
	1. Ramanna Garden 1st Main Road		28				28		
	2. Blue Field Garden Cross Road		26				26		
	3. Yelumandamma Badavane		30				30		
	4. Kempanna Layout 1st Cross Road		26				26		
	5. Yelumandamma Layout 2nd Cross		26				26		
	6. kateramma Layout near Temple		24				24		
	7. Ramachandrapura Govt School		22				22		
			Total Qty =				182		
			Qty Limited to =				180	378.45	68121.00

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16	Impeller Shell moulded with aluminium Bronze)	Each							
	1. Ramanna Garden 1st Main Road		28				28		
	2. Blue Field Garden Cross Road		26				26		
	3. Yelumandamma Badavane		30				30		
	4. Kempanna Layout 1st Cross Road		26				26		
	5. Yelumandamma Layout 2nd Cross		26				26		
	6. kateramma Layout near Temple		24				24		
	7. Ramachandrapura Govt School		22				22		
			Total Qty =				182		
			Qty Limited to =				180	573.56	103241.00

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17	Discharge outlet (D.O) Bearing D.O Steel Bush	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
			Total Qty =				7		
			Qty Limited to =				6	538.24	3229.00

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No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
18	Steel bush (D.O steel bush)	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	179.13	1075.00

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19	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages)	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	1077.32	6464.00

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20	Non – return valve (NRV) assembly complete with rubber 'O' Ring	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	264.91	1589.00

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
21	Cable Guard	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	148.01	888.00

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22	Brass Filter	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	534.87	3209.00

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23	Re-erection charges of pumping machineries including overhauling and pointing	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			7		
				Qty Limited to =			6	1438.95	8634.00

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No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
	Other Parts								
24	Providing non-return valve 50 mm	Nos							
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			**3**		
				Qty Limited to =			**2**	1513.80	**3028.00**

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25	Providing Gate Valve 50 mm	Nos							
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		2				2		
	3. Yelumandamma Badavane		1				1		
	4. Kempanna Layout 1st Cross Road		2				2		
	5. Yelumandamma Layout 2nd Cross		2				2		
	6. kateramma Layout near Temple		2				2		
	7. Ramachandrapura Govt School		1				1		
				Total Qty =			**11**		
				Qty Limited to =			**10**	1513.80	**15138.00**

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26	Submersible Cable 1x3x6.0 Sq.mm	M							
	2. Blue Field Garden Cross Road		1	40.00			40.00		
	4. Kempanna Layout 1st Cross Road		1	35.00			35.00		
	5. Yelumandamma Layout 2nd Cross		1	30.00			30.00		
	6. kateramma Layout near Temple		1	25.00			25.00		
			1	25.00			25.00		
				Total Qty =			**155.00**		
				Qty Limited to =			**150.00**	121.10	**18165.00**

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
27	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws.,	Each							
	1. Ramanna Garden 1st Main Road		1				1		
	6. kateramma Layout near Temple		1				1		
	7. Ramachandrapura Govt School		1				1		
			Total Qty =				**3**	245.57	**737.00**

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28	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.	Mtr							
	40mm dia GI pipe								
	3. Yelumandamma Badavane		1	4.00			4.00		
	5. Yelumandamma Layout 2nd Cross		1	4.00			4.00		
	6. kateramma Layout near Temple		1	4.00			4.00		
			Total Qty =				**12.00**	281.73	**3381.00**

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29	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.	No.							
	16Sqmm								
	1. Ramanna Garden 1st Main Road		1				1		
	2. Blue Field Garden Cross Road		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
			Total Qty =				**5**	227.00	**1135.00**

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No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
30	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia,	No							
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
				Total Qty =			**3**	2522.75	**7568.00**

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31	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.	No.							
	32 Amps								
	1. Ramanna Garden 1st Main Road		6				6		
	4. Kempanna Layout 1st Cross Road		6				6		
	6. kateramma Layout near Temple		6				6		
				Total Qty =			**18**	146.33	**2634.00**

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32	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. **6-32Amps**	No							
	2. Blue Field Garden Cross Road		1				1		
	4. Kempanna Layout 1st Cross Road		1				1		
	5. Yelumandamma Layout 2nd Cross		1				1		
	6. kateramma Layout near Temple		1				1		
				Total Qty =			**4**	1442.32	**5769.00**

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
33	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete	Sq.Cm							
	16SWG								
	2. Blue Field Garden Cross Road		1x2	120.00	60.00		14400.00		
			1	360.00	30.00		10800.00		
	3. Yelumandamma Badavane		1x2	120.00	60.00		14400.00		
			1	360.00	30.00		10800.00		
	4. Kempanna Layout 1st Cross Road		1x2	120.00	60.00		14400.00		
			1	360.00	30.00		10800.00		
	5. Yelumandamma Layout 2nd Cross		1x2	120.00	60.00		14400.00		
			1	360.00	30.00		10800.00		
	6. kateramma Layout near Temple		1x2	120.00	60.00		14400.00		
			1	360.00	30.00		10800.00		
	7. Ramachandrapura Govt School		1x2	120.00	60.00		14400.00		
			1	360.00	30.00		10800.00		
				Total Qty =			**151200.00**	0.29	**43848.00**

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
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No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
34	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strata by Manual Means .	Cum							
	Earthwork for Pipeline								
	Muthurayaswamy Badavane near Big bazaar		2	30.00	0.60	0.60	21.60		
			1	2.30	0.60	0.60	0.83		
	Borewell to Main Road		1	30.00	0.60	0.60	10.80		
			1	5.60	0.60	0.60	2.02		
			1	20.60	0.60	0.60	7.42		
	Gas Godan Road 2nd Cross		5	30.00	0.60	0.60	54.00		
			1	16.50	0.60	0.60	5.94		
			1	26.10	0.60	0.60	9.40		
	Yelumandamma Temple Cross Road		1	30.00	0.60	0.60	10.80		
			1	12.60	0.60	0.60	4.54		
	Yelumandamma Temple Road		1	30.00	0.60	0.60	10.80		
			1	10.50	0.60	0.60	3.78		
	Chamundeshwari Layout 3rd A Cross		3	30.00	0.60	0.60	32.40		
			1	6.30	0.60	0.60	2.27		
	Chamundeshwari Layout 3rd Main Road		4	30.00	0.60	0.60	43.20		
			1	2.50	0.60	0.60	0.90		
	Ramanna Garden		1	15.00	0.60	0.60	5.40		
							226.08		
							221.40	220.34	**48783.00**

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
35	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc.,	Rmtr							
	75 mm dia 6 KSC PVC pipe								
	Muthurayaswamy Badavane near Big bazaar		2	30.00			60.00		
			1	2.30			2.30		
	Borewell to Main Road		1	30.00			30.00		
			1	5.60			5.60		
			1	20.60			20.60		
	Gas Godan Road 2nd Cross		5	30.00			150.00		
			1	16.50			16.50		
			1	26.10			26.10		
	Yelumandamma Temple Cross Road		1	30.00			30.00		
			1	12.60			12.60		
	Yelumandamma Temple Road		1	30.00			30.00		
			1	10.50			10.50		
	Chamundeshwari Layout 3rd A Cross		3	30.00			90.00		
			1	6.30			6.30		
	Chamundeshwari Layout 3rd Main Road		4	30.00			120.00		
			1	2.50			2.50		
	Ramanna Garden		1	15.00			15.00		
							628.00		
							615.00	174.00	**107010.00**
36	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including watering, consolidation in layers of 15 cm thick including disposing of the sunplus earth with a lead of 200 mtrs	Cum							
			Qty. Vide Item No. 34				**221.40**	86.62	**19178.00**
	Sub Total								**599043.00**
	GST @ 12%								**71885.00**
								Total	**670928.00**

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